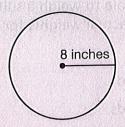
17

Mieko is putting a ribbon border around the edge of a circular mirror, as shown ALMANDATION IN MEMBERS OF STATE OF GOING VICTORIBETED VOLDS OF THE The consequence of the second of the second



[not drawn to scale]

What length of ribbon, in inches, does Mieko use? Use 3.14 for π .

- 200.96 inches
- 100.48 inches B
- C 50.24 inches
- 25.12 inches D
- 48

Mr. Flores charges \$530 for car repairs to his credit card, which charges no interest if paid in full within 9 months. He pays \$150 the first month. How much must he pay each month for the next 8 months so that he pays no interest?

- \$47.50
- \$58.89 B
- C \$66.25
- \$380.00 D

A cell phone plan charges \$59.90 a month, plus \$0.25 per text message. Which expression can be solved to find how many text messages, x, can be sent while still keeping the monthly bill under \$75?

- 59.9 + 0.25x > 75A
- x(59.9 + 0.25) < 75В
- C 59.9 + 25x < 75
- 59.9 + 0.25x < 75D

PRACTICE TEST 2

Go On

- A scale measures with a 1.5% margin of error, which means that the measurement given by the scale may be up to 1.5% lower or higher than the actual weight of the object. If Colin uses this scale to weigh a suitcase and the scale reads 40 pounds, what is the range of possible actual weights for the suitcase?
 - A 34 pounds to 46 pounds
 - B 35.5 pounds to 44.5 pounds
 - C 38.5 pounds to 41.5 pounds
 - D 39.4 pounds to 40.6 pounds
- 51 Which expression is equivalent to 9 27m?
 - A -18m
 - B 9m(1-3)
 - C m(9-27)
 - D 9(1-3m)
- The rent for an office space is \$674.30 per month. The office is $306\frac{1}{2}$ square feet in area. What is the monthly cost per square foot to rent the office?
 - A \$22.48
 - B \$2.20
 - C \$0.46
 - D \$0.22

Lucia is conducting an experiment in which she repeatedly draws a marble from a bag without looking, records its color, and replaces it. She conducted 40 trials in the experiment, with the results shown below.

LUCIA'S RESULTS

Result	Red	Blue	Yellow
Frequency	16	14	10

If Lucia were to conduct the same experiment with 2,000 draws, approximately how many times should she expect to draw a yellow marble?

- A 125
- B 250
- C 400
- D 500
- 54 Simplify the expression below.

$$\frac{4}{9} \div 12$$

- A 27
- B $\frac{16}{3}$
- $C = \frac{3}{16}$
- D $\frac{1}{27}$
- Derrick has a chance to win a new music player. He must pick one of the two winning tokens from a bag that holds 15 tokens. What is the probability that Derrick picks a winning token?
 - A $\frac{1}{15}$
 - $\mathbf{B} = \frac{2}{15}$
 - C $\frac{13}{15}$
 - D $\frac{14}{15}$

STOP

PRACTICE TEST 2

TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Be sure to carefully read all the directions in the test book.
- Read each question carefully and think about the answer before choosing your response.
- Look for words that are **bolded**. They are important.
- Be sure to show your work when asked. You may receive partial credit if you have shown your work.

DATA ON SQUARES

Side Length (in inches)	Area (in square inches)		
1	1		
2	4		
3	9		
4	16		

Based on the data Beatrice calculated, are the side length and area of a square proportionally related? On the lines below, answer the question and explain your reasoning.

PRACTICE TEST 2

Go On

	A Charlette (Carlette (Car		
		La contraction of the second	
	of a rectangle, given the l	length, L , and width, W , osecond is $P = 2(L + W)$. O	
The first is $P =$	L + W + L + W and the s first equation transforms		
The first is $P =$			

	n extern financial control out to pay here under the control that and that and the control of th
-	
Enz	o wants to know if he could win the election for class president, so to get an
idea said for aga acci	a, he surveys the 35 students that ride the bus with him. Of these students, 12 I they would absolutely vote for Enzo, 10 said they absolutely would not vote Enzo, and the remaining students said it would depend on who he was runnin inst. There are a total of 450 students in Enzo's class. If Enzo's bus survey is an urate representation of his entire class, what number of students in his class are decided on who they'd vote for?
idea said for aga accu	I they would absolutely vote for Enzo, 10 said they absolutely would not vote Enzo, and the remaining students said it would depend on who he was runnin inst. There are a total of 450 students in Enzo's class. If Enzo's bus survey is an urate representation of his entire class, what number of students in his class are
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Go On

PRACTICE TEST 2

students

Answer_

Bob won big at bingo last night, he walked away with \$800. The first thing Bob doe is to take a cab to his mother's house. He gives the cab driver \$20 and tells him to keep the change. Bob then gives his mother $\frac{1}{3}$ of his remaining winnings and decides to walk down the street to his aunt's house to share his winnings with her as well. Bob gives his aunt one fourth of what money he has left. Lastly, Bob gives one sixth of what he has left to his best friend and keeps the rest for himself. How much money does Bob get to keep?

Show your work.

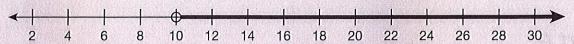
Answer \$_____and an amount of the control of the co

	200 This year 260
2	Last year, the attendance at the homecoming football game was 300. This year, 360 people attended.
Part	A see process of the process of the second s
	What was the percent increase from last year to this year?
	Show your work.
	Answer %
Part	是我们的大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
a	If the increase in the number of people from this year's to next year's homecoming football is the same as from last year to this year, is the percent increase the same? On the lines below, answer the question and explain your reasoning.
	many and minimal sequence with the translation of the property of the contract
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PRACTICE TEST 2

Go On

Ben's contract states that he must work more than 10 hours per project. The graph below represents the number of hours he can work on a project.



Part A

Write an algebraic inequality representing the number of hours, h, Ben can work on a project.

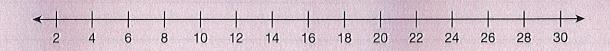
Answer

Part B

Ben gets paid \$12.50 per hour in addition to a flat fee of \$50. He wants to earn more than \$300 for his current project. Write an inequality to represent this situation.

Part C

Solve the inequality you wrote in Part B and graph the solution set on the number line below. On the lines below, explain what the solution set represents for Ben.



54	Ernest has a cir or breaking the	cular shaped piece of wire wi e wire, he bends it into the sh	th a radius of 4 inches. hape of a square.	Without cutting
Part	: A			A.Pass.
	What is the cir hundredths pla	cumference of the circle? (Let	$\pi=$ 3.14) Round your a	answer to the
	Answer			Part G
ží i	Thra three in	n in the second control of the same of	on satisfied will be even	
Par	t B	Broseg Australia bearing steady	in Budann Karaki bari Baraki karaki	DAR BURE BURE.
		is bent into a square, what is	the side length of the s	square? Round

_____inches Answer __

Part C

What is the difference between the area of the circle and the square? Round the answer to the hundredths place.

Show your work.

_ square inches Answer_

PRACTICE TEST 2

Go On

June is conducting an experiment using a quarter, a nickel, and a six-sided number cube. Her experiment consists of tossing both coins and rolling the number cube.

Part A

Create a tree diagram, or list, of all of the possible outcomes for her experiment.

Part B

What is the probability that the coins don't come up the same (i.e., heads and tails or tails and heads) and the cube shows a prime number? Record your answer as a percent rounded to the nearest tenth.

Show your work.

				0/
Δ	nswe	100 200 PM		%



Reference Sheet

Grade 7 Mathematics Reference Sheet

CONVERSIONS

- 1 inch = 2.54 centimeters
- 1 meter = 39.37 inches
- 1 mile = 5,280 feet
- 1 mile = 1,760 yards
- 1 mile = 1.609 kilometers
- 1 kilometer = 0.62 mile
- 1 pound = 16 ounces
- 1 pound = 0.454 kilogram
- 1 kilogram = 2.2 pounds
- 1 ton = 2,000 pounds
- 1 cup = 8 fluid ounces
- 1 pint = 2 cups
- 1 quart = 2 pints
- 1 gallon = 4 quarts
- 1 gallon = 3.785 liters 1 liter = 0.264 gallon
- 1 liter = 1,000 cubic centimeters

FORMULAS

Triangle

$$A = \frac{1}{2}bh$$

Parallelogram

$$A = bh$$

Circle

$$A = \pi r^2$$

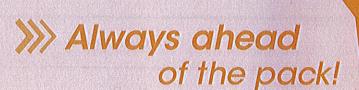
Circle

$$C = \pi d$$
 or $C = 2\pi r$

General Prisms

$$V = Bh$$





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